FlyBy Math™ Alignment
Colorado Model Content Standards and Benchmarks
Amended 9-15-05

Standard 2:
Students use algebraic methods to explore, model, and describe patterns and functions involving numbers, shapes, data, and graphs in problem-solving situations and communicate the reasoning used in solving these problems.

Benchmarks	***FlyBy Math*™ Activities**
1. model real-world phenomena (for example, distance versus- time relationships, compound interest, amortization tables, mortality rates) using functions, equations, inequalities, and matrices;	--Represent distance, speed, and time relationships for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system.
2. represent functional relationships using written explanations, tables, equations, and graphs, and describing the connections among these representations;	--Represent distance, speed, and time relationships for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system.
3. solve problems involving functional relationships using graphing calculators and/or computers as well as appropriate paper-and-pencil techniques;	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

Standard 5:
Students use a variety of tools and techniques to measure, apply the results in problem-solving situations, and communicate the reasoning used in solving these problems.

Benchmarks	***FlyBy Math*™ Activities**
1. measure quantities indirectly using techniques of algebra, geometry, or trigonometry;	--Calculate and measure the position and time of simulated aircraft. Represent that motion using tables, graphs, equations, and experimentation.
2. select and use appropriate techniques and tools to measure quantities in order to achieve specified degrees of precision, accuracy, and error (or tolerance) of measurements;	--Calculate and measure the position and time of simulated aircraft. Represent that motion using tables, graphs, equations, and experimentation.

Standard 6: Students link concepts and procedures as they develop and use computational techniques, including estimation, mental arithmetic, paper-and-pencil, calculators, and computers, in problem-solving situations and communicate the reasoning used in solving these problems.	
Benchmarks 1. use ratios, proportions, and percents in problem-solving situations.	***FlyBy Math™* Activities** --Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.